**MASTERS PRE-UNIVERSITY COLLEGE, HASSAN 573201.**

**PRACTICE QUESTIONS**

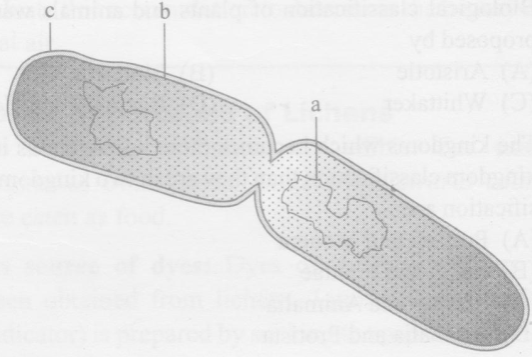
**Subject: BIOLOGY**  **BIOLOGICAL CLASSIFICATION**

1. **Five kingdom classification was based on**
2. Cell structure b) thallus organisation c) mode of nutrition d) all of the above
3. **Match the columns I and II, and choose the correct combination from the options given**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kingdom** |  | **Body organisation** |
| **a** | **Plantae** | **1** | **Cellular** |
| **b** | **Monera** | **2** | **Multicellular/loose tissue** |
| **c** | **Fungi** | **3** | **Tissue/organ** |
| **d** | **Animalia** | **4** | **Tissue/organ/organ system** |
| **e** | **protista** | **5** | **tissue** |

1. A-4,b-1,c-2,d-3,e-5 b)a-3,b-1,c-2,d-4,e-5 c) a-3,b-2,c-5,d-4,e-1 d) a-3,b-1,c-2,d-4,e-1
2. **Which one does not match with whittaker’s criteria of classification?**
3. Cell structure b) thallus organisation

c) phylogenetic relationship d) mode of spore formation

1.  **Recognise the figure and find the suitable matching**
2. a-nucleus ,b-cell membrane,c-capsule
3. a- DNA,b-cell membrane ,c-cell wall
4. a-DNA,b-cell wall, c-cell capsule
5. a-nucleus, b-cell membrane- c-cell wall
6. **Select the correct statement.**
7. **Methanogens are archaebacteria which reproduce methane in Marshy areas**
8. **Nostoc is a filamentous BGA which fixes atmospheric N2**
9. **Chemosynthetic autotrophic bacteria synthesize cellulose from glucose**
10. **Mycoplasma lack cell wall and can survive without oxygen**
11. b,c b) a, b, c c) b, c, d d) a, b, d
12. **Chlorophyll ‘a’ is present in**
13. Archaebacteria b) bacteria c) cyanobacteria d) all
14. **Viruses are made up of**

a) Nucleic acid (DNA or RNA) b)Nucleic acid (DNA and RNA)

c) Nucleic acid + protein (Nucleo-protein) d)Protein + DNA +RNA

1. **The bacteria forming blooms in polluted water bodies are nutritionally**
2. Photosynthetic autotrophs b) chemosynthetic autotrophs c) heterotrophs d) saprophytic
3. **Which bacteria oxidise various in organic substances such as nitrates, nitrites and ammonia and use the released energy for ATP production?**
4. Archaebacteria b) Photosynthetic autotrophs

c) Chemosynthetic autotrophs d)Heterotroph

1. **Genetic material without nuclear membrane is found in**
2. Bacteria and mycoplasma
3. Cyanobacteria and bacteria
4. Archaebacteria and blue green algae
5. All of the above
6. **I) Unicellular, colonial, filamentous, marine or terrestrial forms**

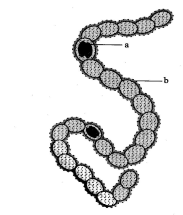
**II) The colonies are surrounded by a gelatinous sheath**

**III) Some can fix atmospheric nitrogen in specialised cells called heterocysts**

**IV) They often form blooms in water bodies**

**These above characters are seen in**

1. Archaebacteria b) cyanobacteria c) chrysophytes d) dinoflagellates
2. **Recognise the figure and find suitable matching**



1. Nostoc, a-heterosome,b-mucilagenous sheath
2. Nostoc, a-heterocyst,b-chitinous sheath
3. Anabaena,a-heterocyst,b-gelatinous sheath
4. Nostoc,a-heterocyst,b-mucilagenous sheath
5. **The shape of the cocci bacteria is**
6. Rod shaped b) spherical c) comma shaped d) spiral
7. **Which one of the following is a characteristics feature of chrysophytes**
8. They are parasitic forms which cause disease in animals
9. They have a protein rich layer called pellicle
10. They are commonly called diatoms
11. They are saprophytic protist
12. **During unfavourable condition, slime moulds**
13. Form fruiting bodies bearing spores at their tips
14. Form an aggregation called plasmodium
15. Form an aggregation called pseudoplasmodium
16. Both A and B are correct
17. **Parasitic amoeboid protozoan is**
18. Amoeba b)Trypanosoma c)Entamoeba d)paramecium
19. **Sleeping sickness is caused by**

a)Amoeboid protozoan b)Flagellated protozoan c)Ciliated protozoan d)sporozoan

1. **Match the columns I and II, and choose the correct combination from the options given**

|  |  |
| --- | --- |
| **Column I**  **(Protozoan Group)** | **Column II**  **(Example)** |
| 1. **Flagellate** | **1.Plasmodium** |
| 1. **Sporozoan** | **2.Entamoeba** |
| 1. **Ciliated** | **3.Trypanosoma** |
| 1. **Amoeboid** | **4.Paramoecium** |

a)a-3,b-1,c-4,d-2 b)a-4,b-1,c-3,d-2 c)a-3,b-2,c-4,d-1 d)a-4,b-2,c-3,d-1

1. **Diatomaceous earth is used as**

a)Polishing b)Filtration of oils c)Filtration of syrup d)All of the above.

1. **Which bear two unequal flagella?**

a)Euglenoids b)Slime moulds c)Diatoms d)Dinoflagellates

1. **Red tide is caused by**

a)Diatoms b)slime moulds c)BGA d)Dinoflagellates.

1. **Match the Columns I and II, and choose the correct combination from the options given.**

|  |  |
| --- | --- |
| ***Column I (Group Protista)*** | ***Column II (Example)*** |
| **a.Chrysophytes** | **i. Paramoecium** |
| **b. Dinoflagellates** | **ii. Euglena** |
| **c. Euglenoids** | **iii. Gonyaulax** |
| **d.Protozoans** | **iv. Diatoms** |

a) a-i, b-iii, c-ii, d-iv b)a-iv, b-iii, c-ii, d-i c) a-ii, b-iv, c-iii, d-i d)a-iv, b-ii, c-iii, d-i

1. **Which of the following is wrong about protista**
2. Protistans are both autotrophic and heterotrophic
3. Some protists have cell walls
4. Protists does not have membrane bound organelles
5. All of the above
6. **Coprophilous fungi grows**
7. On the wood b) In the wood c) on the dung d) on the decaying twig
8. **Which is incorrect about phycomycetes**?
9. Mycelium is aseptate and coenocytic
10. A zygospore is formed by fusion of gametes
11. Asexual reproduction take place by motile aplanospores and non motile zoospores
12. White spots seen on mustard leaves are due to parasitic fungus albugo
13. **Some hyphae are continous tube filled with multinucleated cytoplasm. These are called**
14. Syncytial hyphae b) dikaryon c) mycelium d) coenocytic hyphae
15. **Dikaryophase not occurs in**
16. Ascomycetes b) phycomycetes c) basidiomycetes d) both A and B
17. **The deuteromycetes reproduce by asexual spore named as**
18. Aplanospores b) zoospores c) ascospores d) conidia
19. **Mushrooms, bracket fungi or puffballs are placed in**
20. Ascomycetes b) basidiomycetes c) deuteromycetes d) phycomycetes
21. **Which disease is caused by viroids?**
22. Leaf curling disease
23. Potato spindle tuber disease
24. Dwarfing disease
25. All of the above